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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/911,663

07/24/2001

John Edward Ciolfi

MWS-072

3836

959 7590 09/15/2010

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EXAMINER

PILLAI, NAMITHA

ART UNIT

PAPER NUMBER

2173

MAIL DATE

DELIVERY MODE

09/15/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 09/911,663	Applicant(s) CIOLFI, JOHN EDWARD	
	Examiner NAMITHA PILLAI	Art Unit 2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 May 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 33-44 and 46 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 33-44 and 46 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. This Office action is responsive to the Request for Continued Examination (RCE) filed under 37 CFR §1.53(d) on 5/17/10. Applicants have properly set forth the RCE, which has been entered into the application, and an examination on the merits follows herewith. The Examiner acknowledges Applicant's amendments to claims 33 and 46. All pending claims are rejected where the previous rejection has been maintained.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 33-44 and 46 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by U. S. Patent No. 6, 937, 257 B1 (Dunlavey).

As per claims 33 (method) and 46 (readable medium), Dunlavey discloses the inventions substantially as claimed above. Dunlavey discloses the limitations of receiving a plurality of user-defined block parameters (column 9, lines 55-67), teaching that Dunlavey allows for multiple variables to be defined by the user. Dunlavey also discloses processing the plurality of user-defined block parameters to produce a plurality of run-time block parameters (column 3, lines 1-8), with the parameters defined for the blocks by the user is optimized with its proper unit data to create an internal

representation of the user defined block parameter, creating the run-time block parameter for modeling the graphical block diagram. All parameters that are defined by the user for all components of the graphical block diagram have a representative run-time optimized parameter that is created when the internal representation of the graphical block diagram is generated. Dunlavey discloses processing the run-time parameters values to identify block-specific non-interfaced run-time block parameters that have like values (column 24, lines 9-25). Dunlavey also teaches the grouping or pooling together of the identified non-interfaced run-time block parameters that have like values to create a run-time parameter expression for use during modeling, wherein Figure 4 lists the expression "SetDiscrete" which includes a group of run-time block parameters that are grouped and share a commonality of belonging to this group. Figure 4 is further taught to represent run-time parameters and expressions as it is an internal representation (column 17, lines 63-65). Dunlavey discloses multidimensional data types that represent various like variables, which are then reused in relation to expressions and statements (column 3, lines 3-11).

As per claim 34, Dunlavey discloses mapping user defined block parameters into an existing pool (column 7, lines 55-67), where user-defined parameters are received and considered part of an existing pool to be evaluated on a periodic basis.

As per claim 35, Dunlavey discloses that the non-interfaced run-time block parameters have stored values that differ from presented values (see col. 3, lines 1-7), where a conversion process occurs from the presented value to the run-time parameters.

As per claim 36, Dunlavey discloses that the non-interfaced run-time block parameters are fixed point, where Figure 4 teaches "NamedConst" which is a representation of a run-time block parameter that is fixed point.

As per claim 37, Dunlavey discloses translating at run-time constant parameter values to an internal representation to enable increased pooling, where Figure 4 teaches a translated run-time parameter value that is an internal representation of "Unit" which is used multiple times as needed for using units, thereby enabling increased pooling (column 16, lines 38-45).

As per claim 38, Dunlavey discloses collecting constant portions of an expression containing an interfaced variable (column 24, lines 35-45), wherein discloses collecting the constant portions of an expression, as previous expressions that are calculated to a constant value and this constant value further used in an expression containing an interfaced variable, thereby teaching collecting the constant portions of an expression.

As per claim 39, Dunlavey discloses that the run-time block parameter is configured to return simulations results and automatically generated code that implements graphical block diagram model equations (column 19, lines 25-65).

As per claim 40, Dunlavey discloses that the code is automatically generated, the parameter expressions are maintained in the automatically generated code (column 19, lines 42-55).

As per claim 41, Dunlavey discloses that the parameter expressions contain interfaced variables that are updatable during modeling (column 25, lines 40-47).

As per claim 42, Dunlavey discloses converting to a relatively more compact representation portions of the parameter expressions that are constants while providing access to interface variables that are updatable (column 10, lines 45-50 and column 25, lines 40-50), where assignment expressions teaching assigning of a constant value to a variable and differential equation allows for manipulation of values with changes reflected in the graphs as the user updates the parameters.

As per claim 43, Dunlavey discloses that interfaced variables are updatable (column 25, lines 40-50).

As per claim 44, Dunlavey discloses that the updatable variables used in a plurality of blocks are declared only once (column 19, lines 57-64), wherein teaching the use of global variables which are variables that are declared once and is used in a plurality of blocks or functions.

Response to Arguments

3. Applicant's arguments filed 5/17/10 have been fully considered but they are not persuasive.

Applicants argue that Dunlavey does not disclose processing the run-time block parameters to identify non-interface run-time block parameters that have like values. The Examiner respectfully disagrees. For each generated equation that is associated with a block various parameters are processed to access run-time parameters that have constants and other values that are alike and used in a specific block. Different parameters and constant values are identified that have like values and accessed from previous blocks to use in a specified current block. See column 24, lines 9-25.

Conclusion

4. Responses to this action should be submitted as per the options cited below: The United States Patent and Trademark Office requires most patent related correspondence to be: a) faxed to the Central Fax number (571-273-8300) b) hand carried or delivered to the Customer Service Window (located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), c) mailed to the mailing address set forth in 37 CFR 1.1 (e.g., P.O. Box 1450, Alexandria, VA 22313-1450), or d) transmitted to the Office using the Office's Electronic Filing System.

Any inquiry concerning this communication or earlier communications for the examiner should be directed to Namitha Pillai whose telephone number is (571) 272-4054. The examiner can normally be reached from 10:00 AM – 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, Boris Pesin can be reached on (571) 272-4070.

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Art Unit: 2173

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Namitha Pillai
Patent Examiner
Art Unit 2173
September 13, 2010

/Namitha Pillai/

Primary Examiner, Art Unit 2173